



(12) PATENT ABRIDGMENT PETTY

521951

(11) AU-B 3-78 798/81

(54) SECURITY FENCE

(75) BUTLER C.

(21) 78 798

521 951

(22) 22.12.81

(24) 22.12.81

(45) 8.4.82

(51)³ E04H 17/18

(62) PE 7038

(74) DC

(56) 34584/78
7763/61

245 867

E04H
E04H

(57) CLAIM 1. A security fence comprising a plurality of fence portions, upper and lower guide means for cooperation with the fence portions such that the fence portions are constrained against lateral movement relative to the guide means but are moveable therealong, said fence including a fence portions storage bay which is adjacent to the upper and lower guide means, said guide means including transfer means which permits lateral movement of said fence portions into said storage bay, the arrangement being such that said fence portions can be moved seriatim to said transfer means and then laterally into said storage bay, the fence portions being stored in side-by-side relationship in said bay, whereby a predetermined number of said fence portions can be stored in said bay, and wherein said portions can be returned from the storage bay seriatim to register with the upper and lower guide means and moved therealong so that the portions lie in end-to-end relationship, and locking means for restraining movement of said portions when in said end-to-end relationship.

Best Available Copy

COMMONWEALTH of AUSTRALIA

PATENTS ACT 1952

PETTY PATENT SPECIFICATION

(Original)

FOR OFFICE USE

78798/81

Class

Int. Class

Application Number:
Lodged:

Petty Patent Specification Lodged:
Accepted:
Published:

Priority:

Related Art:

This document contains the
amendments made under
Section 49.

and is correct for printing.

19.3.82 *J. Magdo*

Name of Applicant: CHRISTOPHER BUTLER

Address of Applicant: 22 Stevenson Street,
Deer Park,
in the State of Victoria,
Commonwealth of Australia

Actual Inventor(s): CHRISTOPHER BUTLER

Address for Service: DAVIES & COLLISON, Patent Attorneys,
1 Little Collins Street, Melbourne, 3000

Petty Patent Specification for the invention entitled:

SECURITY FENCE

The following statement is a full description of this invention,
including the best method of performing it known to :-

This invention relates to a security fence which is partially demountable so that most of the fence can conveniently be moved to a storage area where it is largely out of sight..

5

The fence of the invention has particular application for protecting car sales yards where new or used cars are kept for display purposes. It is desirable during the times in which the yard is open for business that the fence be demounted so that potential customers will have an unimpeded view of the vehicles on display. At times when the yard is closed for business however, it is desirable that the fence form a secure barrier to prevent persons entering the yard and/or unauthorised removal of vehicles from the yard.

According to the present invention there is provided a security fence comprising a plurality of fence portions, upper and lower guide means for cooperation with the fence portions such that the fence portions are constrained against lateral

20

movement relative to the guide means but are moveable therealong, said fence including a fence portion storage bay which is adjacent to said upper and lower guide means, said guide means including
5 transfer means which permits lateral movement of said fence portions into said storage bay, the arrangement being such that said fence portions can be moved serially to said transfer means and then laterally into said storage bay, the fence portions
10 being stored in side-by-side relationship in said bay, whereby a predetermined number of said portions can be stored in said bay, and wherein said portions can be returned from the storage bay serially to register with the upper and lower guide means and
15 moved therealong so that the portions lie in end-to-end relationship, and locking means for restraining movement of said portions relative to said upper and lower guide means when in said end-to-end relationship.

20

The invention will now be further described with reference to the accompanying drawings, in which:

25 Figure 1 is a side view of an erected security fence in accordance with the invention,

Figure 2 is a plan view of the fence shown in Figure 1,



Figure 3 is a side view of the fence with the fence portions stacked in the storage bay,

Figure 4 is a schematic perspective of
5 one of the fence portions,

Figure 5 is a more detailed view of one of the wheels of the fence portions,

10 Figure 6 is a cross sectional view taken along the line 6-6, and

Figure 7 is a cross sectional view taken along the line 7-7.

15

The fence illustrated in Figure 1 comprises a fixed head rail 2 supported by a plurality of posts 4, which in turn are supported by braces 6, as best seen in Figure 6. The fence includes a lower
20 guide channel 8 and a plurality of slideable fence portions 10.

As best seen in Figure 2, the fence includes a storage bay 12 which is adjacent to but offset
25 from the head rail 2 and channel 8 the arrangement being such that the portions 10 can be moved one at a time so as to be adjacent to the storage bay 12 and then moved laterally so as to be hung on suspension arms 14 provided in the storage bay. In
30 this way, all of the portions 10 can be moved into the bay 12 so as to substantially demount the entire

fence, except for the head rail 2 channel 8 and posts 4, as seen in Figure 3.

Figure 4 illustrates the preferred construction of the fence portions 10. It comprises a metal frame having uprights 16 bottom rail 18 and top rail 20. A plurality of fencing bars 22 extend between the top and bottom rails. The portions 10 includes a pair of wheels 24 which are mounted on axles 26 which in turn are carried between a pair of support plates 28, the support plates 28 forming the connection between the uprights 16 and the bottom rail 18, as shown.

The wheels 24 run in the lower guide 8 of the fence and permit the portions 10 to be easily moved therealong.

The top rail 20 has two pairs of guide plates 30 projecting upwardly which between them define recesses 32 into which is received a guide rail 34 which depends downwardly from the head rail 2, as best seen in Figure 6.

As seen in Figure 5, the upper parts of the wheels 24 are substantially enclosed by the plates 28 whereas the lower parts are received within the guide channel 8, thereby the wheels are substantially tamper-proof. Further, the axles 26 are preferably welded to the plates 28 so as to further eliminate tampering.

The length and number of fence portions 10 is chosen so that when they are arranged in end-to-end relationship, they completely fill the length of the fence without any gaps, and can be locked in this position by means of a chain or other known means.

When it is desired to demount the fence, the portions 10 are moved so as to lie adjacent to the storage bay 12. At the storage bay, the guide rail 34 includes a pair of gaps 36 and the lower channel 8 includes gaps 38 in its innerside wall, the gaps 36 and 38 permitting the plates 30 and wheels 24 respectively to pass therethrough so that the portions 10 can be effectively disengaged from the rail 34 and channel 8. As seen in Figure 7, the suspension arms 14 are located closely adjacent to the undersides of the upper rails 20 so that on disengagement of the portions 10 with the guide rail 34, it can be rotated somewhat inwardly so as to thereupon engage the arms 14. It is preferred that the arms 14 are inclined somewhat downwardly so as to assist in engagement with and movement of the portions 10. The bay 12 further includes lower support arms 40 which engage and support the undersides of the lower rails 18, as illustrated. The length of the arms 14 and 18 is chosen so as to be able to accommodate all of the fence portions 10 thereon. As seen in Figures 1 and 7, the storage bay includes safety plates 42 mounted on the lower channel 8 outwardly adjacent of the gaps 38 so as to prevent the wheels 24 inadvertently jumping laterally beyond the

channel 8 when the portions 10 are being returned to registry with the channel 8 and guide rail 34.

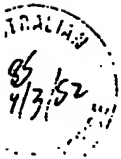
When it is desired to reerect the fence, the portions 10 are moved along the arms 14 and 40 into registry with the channel 8 and into alignment with the rail 34, the plates 30 and wheels 24 passing through the gaps 36 and 38, as before. The portions 10 can then be moved in the longitudinal direction so that the rail 34 will be registered between the plates 30 and thereafter the portions 10 can be rolled along on its wheels to an end abutment (not shown) of the fence. Thereafter the other portions 10 can be moved in a similar manner so that the various portions 10 then lie in end-to-end relationship and complete the fence. The portions are then locked by locking means (not shown) to restrain longitudinal movement thereof.

Many modifications will be apparent to those skilled in the art without departing from the spirit and scope of the invention.

THE CLAIM DEFINING THE INVENTION IS AS FOLLOWS:-

1. A security fence comprising a plurality of fence portions, upper and lower guide means for cooperation with the fence portions such that the fence portions are constrained against lateral movement relative to the guide means but are moveable therealong, said fence including a fence portions storage bay which is adjacent to the upper and lower guide means, said guide means including transfer means which permits lateral movement of said fence portions into said storage bay, the arrangement being such that said fence portions can be moved seriatim to said transfer means and then laterally into said storage bay, the fence portions being stored in side-by-side relationship in said bay, whereby a predetermined number of said fence portions can be stored in said bay, and wherein said portions can be returned from the storage bay seriatum to register with the upper and lower guide means and moved therealong so that the portions lie in end-to-end relationship, and locking means for restraining movement of said portions when in said end-to-end relationship.

Dated this 22nd day of December, 1981.
CHRISTOPHER BUTLER
by his Patent Attorneys
DAVIES & COLLISON



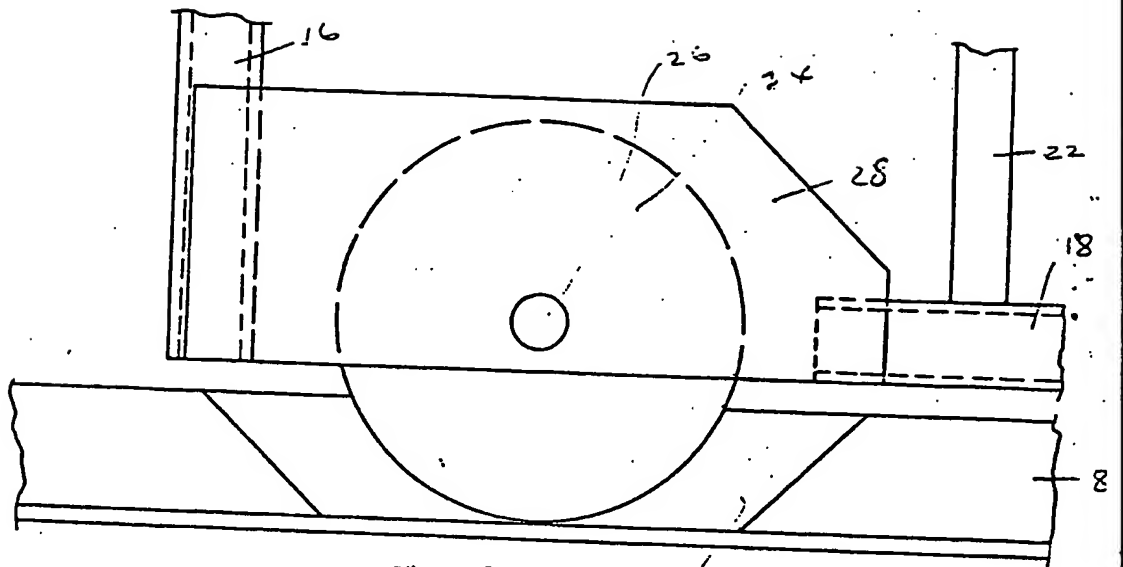


FIG. 5

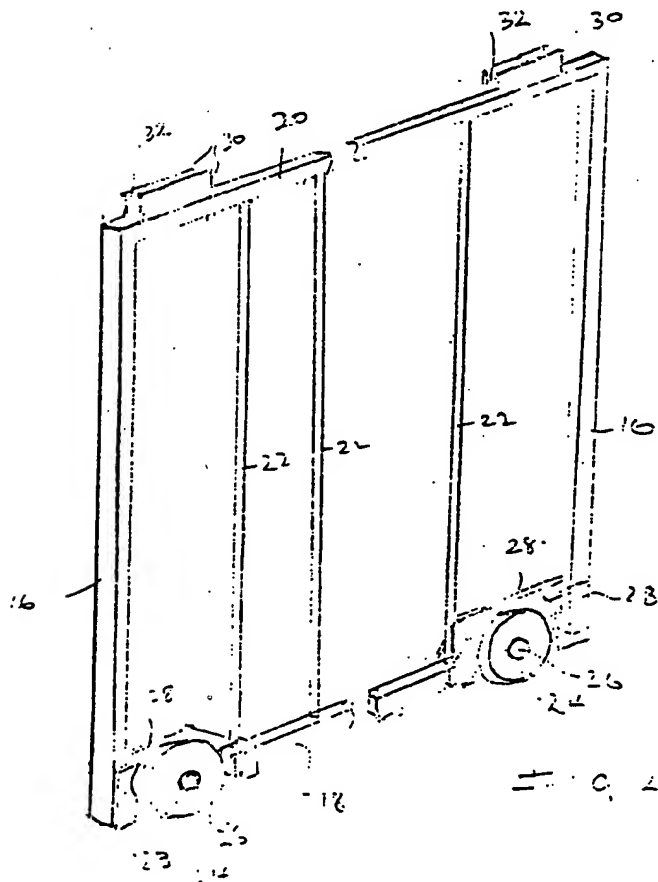


FIG. 4

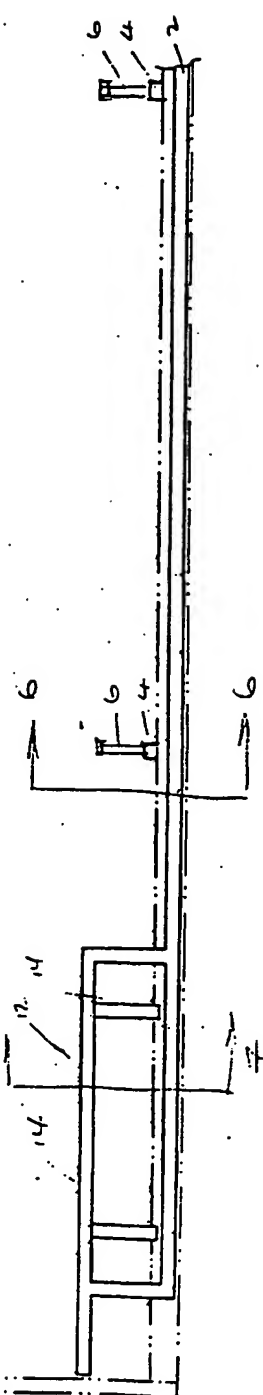
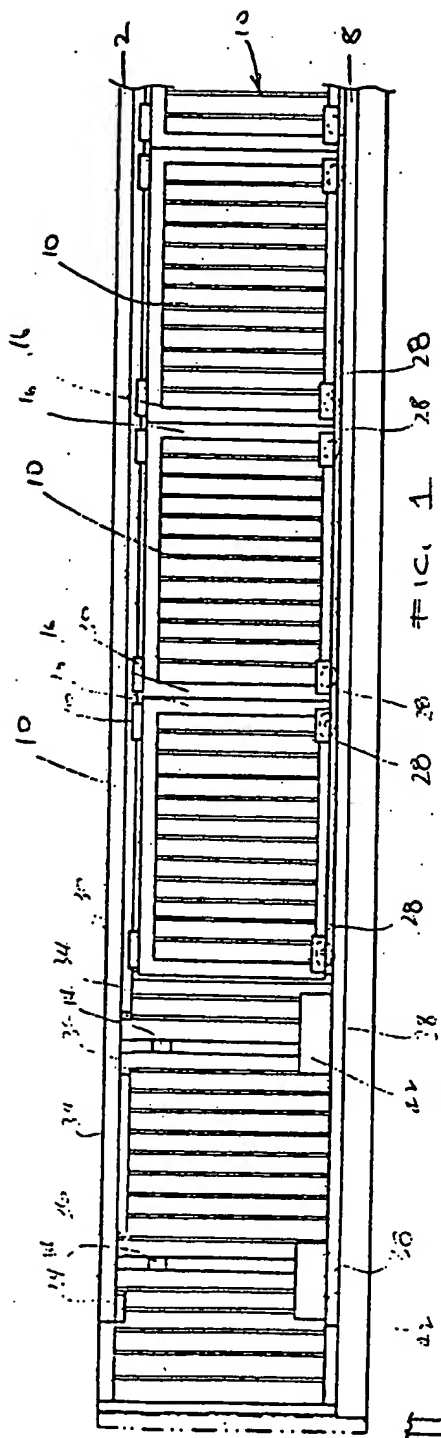
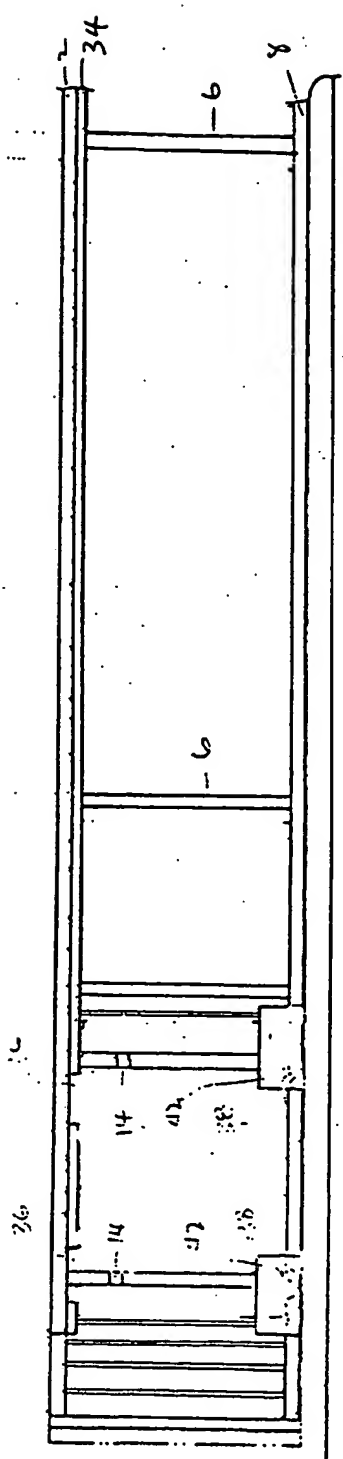


FIG. 2



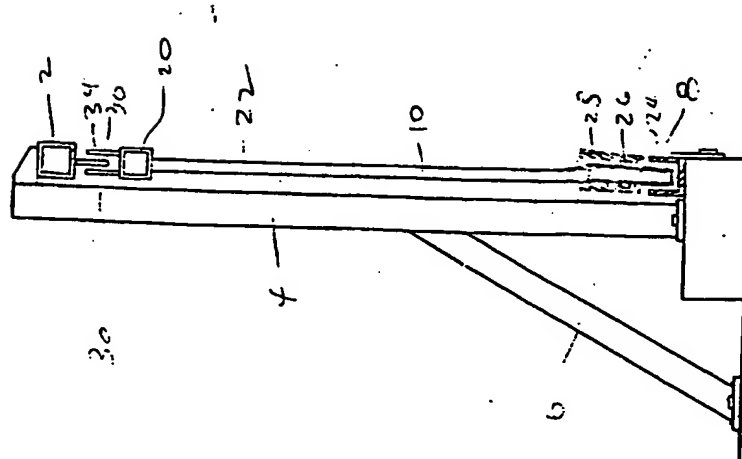


FIG. 6

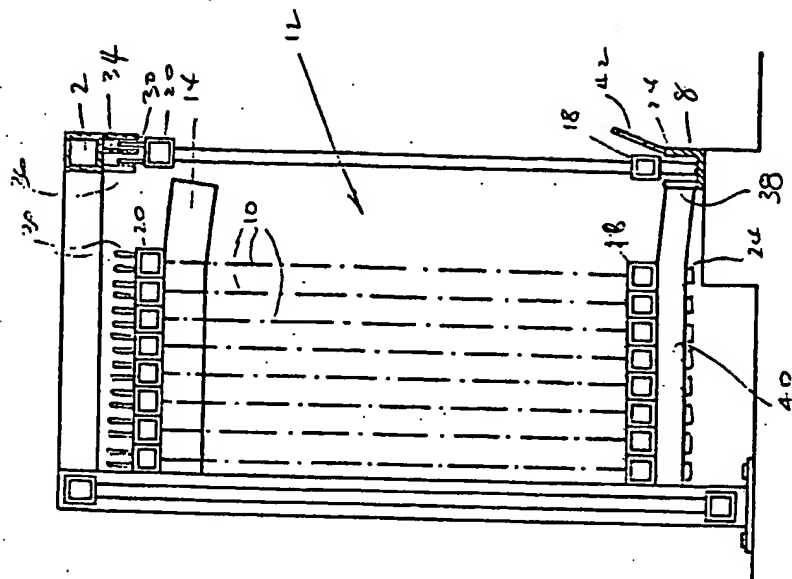


FIG. 7

This Page is inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☒ BLURED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLORED OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REPERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images
problems checked, please do not report the
problems to the IFW Image Problem Mailbox**